

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 62180157
 PUBLICATION DATE : 07-08-87

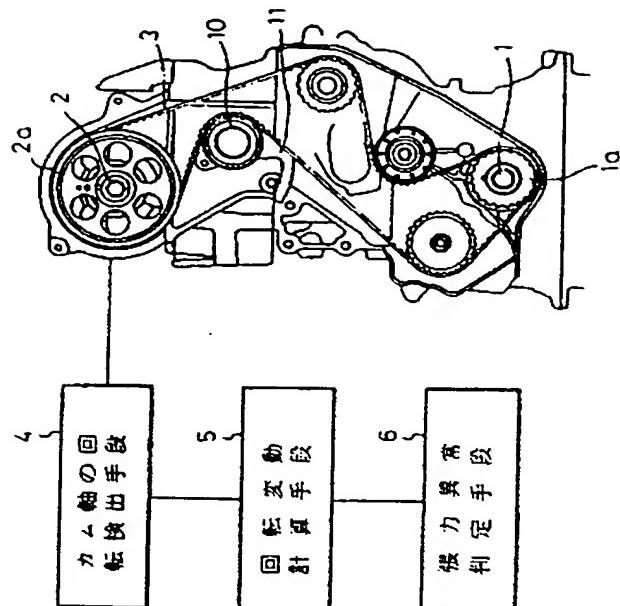
APPLICATION DATE : 04-02-86
 APPLICATION NUMBER : 61021106

APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : NAKAKUBO TAMIRO;

INT.CL. : F16H 7/00

TITLE : ABNORMALITY DETECTING DEVICE
 FOR TIMING BELT



ABSTRACT : PURPOSE: To enable the abnormality of timing belt tension to be easily detected by detecting the rotation of a cam shaft and calculating the rotary fluctuation thereof.

CONSTITUTION: A cam shaft rotary detecting means 4 fitted to a cam shaft 2 outputs four reference signals G (in case of four-cylinder internal combustion engine) per revolution of the cam shaft 2 and twenty-four angular position signals Ne per revolution of the cam shaft 2, respectively to a rotary fluctuation calculation means 5. Said means 5 calculates the mean value of the generation cycles of the angular position signal Ne on the basis of the generation cycles of the reference signal G, and compares the mean value with the generation cycle of the angular position signal Ne to be actually inputted. The result of the comparison on said means 5 is inputted to a tension abnormality discrimination means 6 and it is judged therein whether the inputted result has reached such a level as requiring the correction of tension for a timing belt 3. When the correction is required, a warning lamp is lit and a tension pulley is actuated, thereby adjusting the tension of the timing pulley 3.

COPYRIGHT: (C)1987,JPO&Japio